

kHz Range Crystal unit

MC-306

SEIKO EPSON CORPORATION

Product name

MC-306 77.503000 kHz 12.5 +30.0-30.0

Product Number / Ordering code

Q14MC30620238xx

Please refer to the 5.Packing information about xx (last 2 digits)

Complies with EU RoHS directive

Reference weight Typ. 126 mg

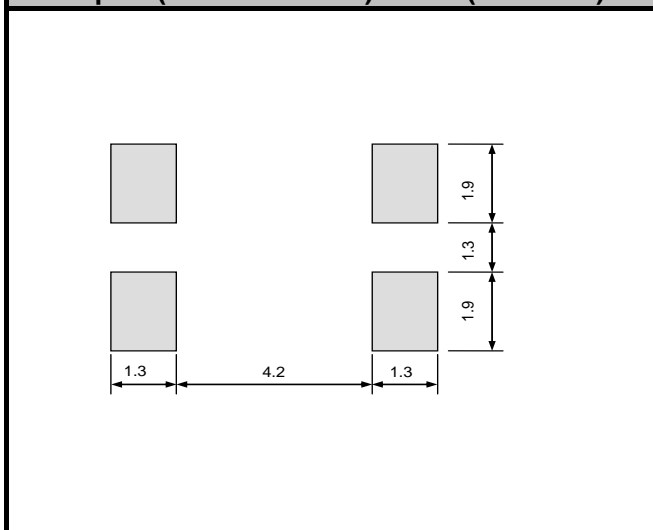
1.Absolute maximum ratings						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-55	-	125	°C	Storage as single product
Maximum drive level	GL	-	-	1.0	μW	

2.Specifications(characteristics)						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	77.503	-	kHz	
Operating temperature	T_use	-40	-	85	°C	
Level of drive	DL	-	-	1.0	μW	
Frequency tolerance	f_tol	-30.0	-	+30.0	$\times 10^{-6}$	+25°C DL=0.1μW
Turnover temperature	Ti	20	25	30	°C	
Parabolic coefficient	B	-	-	-0.04	$\times 10^{-6}/^{\circ}\text{C}^2$	
Load capacitance	CL	-	12.5	-	pF	
Motional resistance (ESR)	R1	-	TBD	TBD	k Ω	
Motional capacitance	C1	-	TBD	-	fF	
Shunt capacitance	C0	-	TBD	-	pF	
Motional inductance	L1	-	TBD	-	kH	
Frequency aging	f_age	-5	-	5	$\times 10^{-6}$ /yea	@+25°C, First year

**3.External dimensions (Unit: mm)**



**4.Footprint(Recommended) (Unit: mm)**



**5.Packing information**

[ 1 ] Product number last 2 digits code (xx) description      The recommended code is "00"

Q14MC30620238xx

Code	Condition	Code	Condition
01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel
11	Any Q'ty / Reel	15	2000pcs / Reel
12	250pcs / Reel	00	3000pcs / Reel
13	500pcs / Reel		



**Reflow profile**

Pre Heating Temperature

Tp1 ~ Tp2 = + 170 °C

Heating Temperature

TMI = + 220 °C

Peak Temperature

TMax. = + 260 °C

Point of measuring

In case of Solder ability

Terminal.

In case of Resistance to soldering heat  
Surface.

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